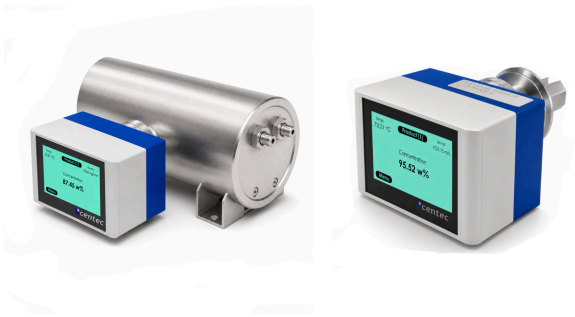
ALCOHOL MEASUREMENT

ALCOHOL MONITOR

Alcohol Measurement by Density or Sound Velocity

The ALCOHOL MONITOR measures the alcohol content of water-ethanol mixtures, including during the production of beer and beer mixed drinks. Depending on the version, measurement is based on density using RHOTEC or sound velocity using SONATEC.



Alcohol Directly in the Process
The measured value is continuously available during production.

Density or Sound Velocity
RHOTEC and SONATEC use different physical measurement principles.

For Ethanol-Water Mixtures
Designed to measure alcohol in mixtures of water and ethanol.

Measuring Principle

Depending on the version, the alcohol content is determined from density using RHOTEC or sound velocity using SONATEC.

Applications

- Water-Ethanol Mixtures
- Beer
- Beer Mixed Drinks
- Alcohol Content
- Production Process
- In-line Measurement

Temperature drift of the measurement signal is automatically compensated. European patent application: 1 439 438 B1.

Technical Data

The following values are taken from the underlying RHOTEC and SONATEC versions. The appropriate version is selected according to the medium, measuring range and process conditions.

PARAMETER	ALCOHOL MONITOR
Measuring Principle	RHOTEC density or SONATEC sound velocity
RHOTEC Measuring Range	0 - 100 vol. % alcohol
SONATEC Measuring Ranges	I) 0 - 20 vol. % II) 35 - 70 vol. %
Accuracy	± 0,02 vol. % (RHOTEC) ± 0,06 vol. % (SONATEC)
Response Time	≤ 1 s
Operating Pressure	max. 16 bar
Operating Temperature / Temperature Sensor	-25 to +125 °C / Pt1000
Material	1.4404 / 1.4435 / AISI 316L; Hastelloy; tantalum; others on request
Input	1 x analog (4 - 20 mA) & 6 x digital (24 VDC)
Output / Fieldbus	2 x analog (4 - 20 mA) & 3 x digital (24 VDC) optional: PROFIBUS DP & PROFINET
Enclosure Rating	IP65; optional: ATEX (II 3G Ex ic IIC T6 Gc)
Power Supply	24 VDC

Highly Accurate Alcohol Determination
Measurement of alcohol content during production.

Display at the Measuring Point
Depending on the version, the measured value can be read directly at the sensor.

Hygienic Design
Various materials and flange connections.

Design & Integration

We support you with the project-specific selection and integration of the **ALCOHOL MONITOR** - from measuring range and installation position to process connection and interfaces.

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